

# **EXHIBIT E**

US8861512	FreeConferenceCall (“The Accused Product”)  The accused product discloses a method of enabling a wireless device (e.g., Smartphone), located in a region, to initiate a network connection (e.g., initiation of voice call) without using a network operator's home location register that covers that region.  The accused product uses Internet or IP network for calling based on VoIP. Hence, it bypasses network operator's home location register as Wi-Fi or internet based calling does not require home location register (HLR).
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App Store Preview

This app is available only on the App Store for iPhone and iPad.

The image shows the App Store preview for the "Free Conference Call" app. It features a large icon with a white telephone receiver inside a blue circle. To the right of the icon, the app's name "Free Conference Call" is displayed in bold, along with a 4.5 rating and 3.9K reviews. Below the name, it says "Conferencing & Screen Sharing" and "CarrierX LLC". The word "Free" is also present. Underneath the main section, there is a heading "Screenshots" followed by "iPhone" and "iPad" buttons, with the "iPhone" button highlighted with a red box. Below this, four screenshots of the app interface are shown: 1. A promotional card for FreeConferenceCall.com stating "1.5 Billion Call Connections", "Used by 82% of Fortune 500 Businesses", and "40 Million Conferences Hosted Annually". 2. A video call interface showing four participants in a "Marketing Meeting". 3. A host's control panel titled "Host." showing participant thumbnails and a "Start" button. 4. A participant's view of the video conference. The third screenshot is also highlighted with a red box.

<https://apps.apple.com/us/app/free-conference-call/id1076834814#?platform=iphone>

The FreeConferenceCall.com app makes it simple to host HD audio conference calls with video conferencing and screen sharing. This award-winning audio + video conferencing tool lets you host an unlimited number of meetings with up to 1,000 participants per meeting. You also get screen sharing, international dial-in numbers for 75+ countries, and meeting recording, all for free. All we ask is that if you like the tool you pay us what you think is fair. These contributions help us provide totally free, world-class audio and video conferencing solutions to charities, volunteers, and students all around the world.

Features include:

- Free application download
- Free account activation
- Free HD audio conference calls w/up to 1,000 participants
- Free HD video conferencing and screen sharing w/up to 1,000 participants
- Free International conferencing with dedicated dial-in numbers in 75 countries...and growing!
- Conference features: web controls, including mute and record, lock, view participants, Q&A and more
- One-touch conference commands to manage calls
- Dial-in by VoIP
- Unlimited account and conference access

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★★★★★ 1.5K reviews as of 3/24/2020

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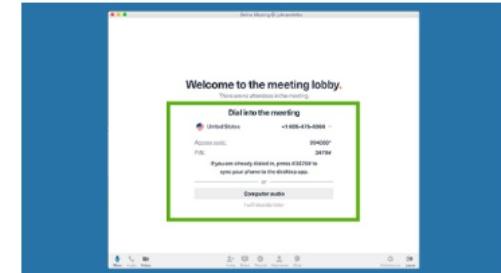
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### Dial in on the Phone

To join the conference using your phone, tap or dial the number and access code, then enter the host PIN

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**What is a VoIP conference call?**

**How do you conference call on VoIP?**

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VoIP calls work similarly to calls using a carrier network. Using your softphone, dial the number of the conference you wish to join and enter the access number followed by the pound key. You are now on a VoIP conference call with your party.

If you'd like to join a VoIP conference using FreeConferenceCall.com, you can quickly join the call by entering the meeting ID and selecting "Join." Next, select "computer audio." You are now on a VoIP conference call with your party.

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A softphone, also referred to as an internet telephone, is a software on a computer or mobile device that allows users to make VoIP calls. Softphones can be accessed through your VoIP provider, capable of dialing standard phone numbers like a traditional phone.

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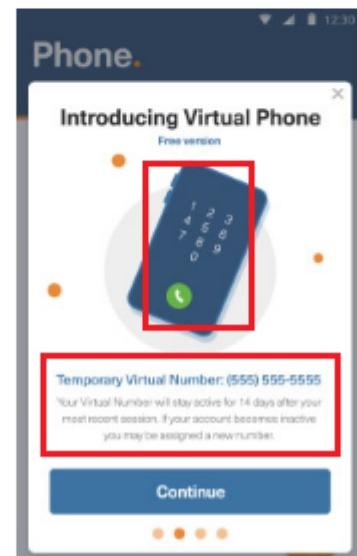
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## Activating your Virtual Phone

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2. Make sure to enable permissions to contacts and notifications so you can take full advantage of the virtual phone's features
3. Launch the app and log into your account
4. Select the phone icon in the bottom navigation bar
5. When selected for the first time, you will go through the activation slides

a. Copy your phone number to your clipboard



b. Enable ringing if you want your device to ring when someone calls your number



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## How SIP is used in VoIP

SIP is a text based protocol that was developed on a similar model to HTTP responses. When compared to alternatives such as H.323, it is very simple to construct and debug. But it is also extremely flexible and has powerful features that can be utilized in very complex PBX systems. It is a general-purpose protocol that can handle a variety of sessions. In VoIP specifically, SIP is used to perform a variety of functions including:

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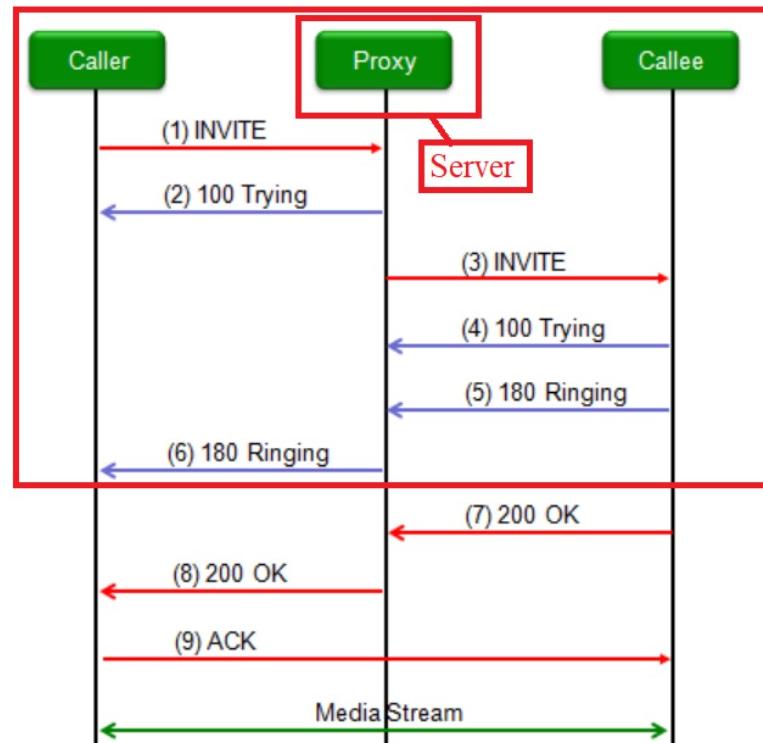
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(a) the wireless device using a module that is responsible for contacting a server to communicate with the server over a wireless link, wherein the device includes the module that is implemented as software and that is downloadable to the device;	The wireless device (e.g., Smartphone) using a module (e.g., FreeConferenceCall application) that is responsible for contacting a server (e.g., FreeConferenceCall Server) to communicate with the server (e.g., FreeConferenceCall Server) over a wireless link (e.g., VoIP link), wherein the wireless device (e.g., Smartphone) includes the module (e.g., FreeConferenceCall application) that is implemented as software and that is downloadable to the wireless device (e.g., Smartphone).
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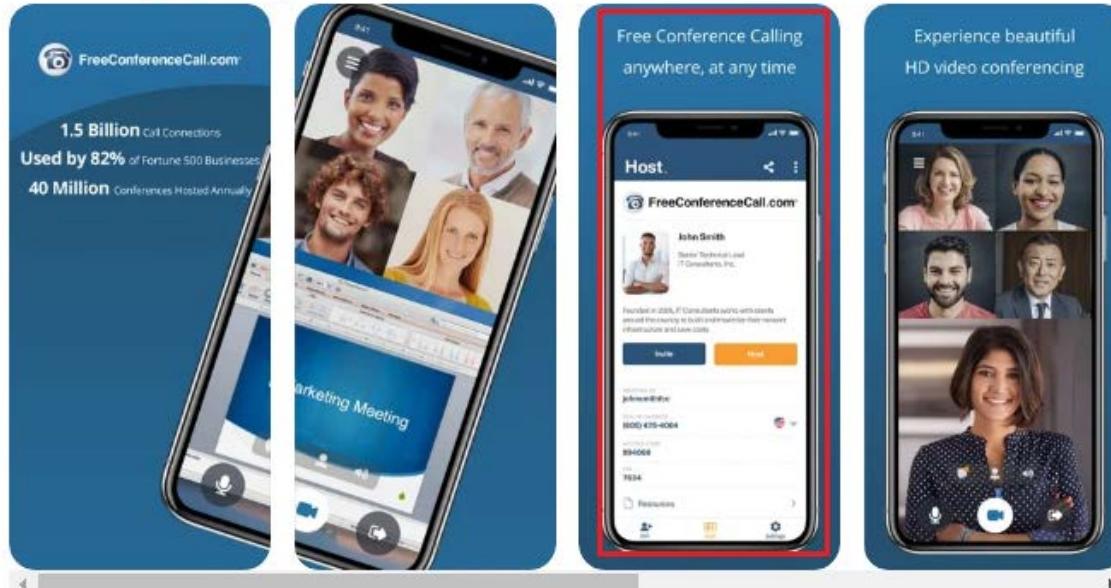
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Marketing Meeting

Free Conference Calling anywhere, at any time

Host.

John Smith  
Senior Technical Lead  
IT Consultants, Inc.

Join or invite participants  
Conference ID: 1234567890  
PIN: 123456  
Call ID: 123456  
Resources

Experience beautiful HD video conferencing

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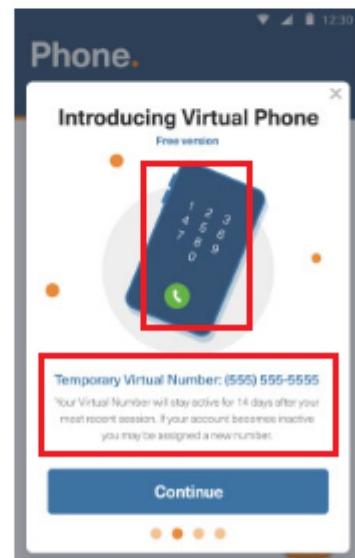
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## Activating your Virtual Phone

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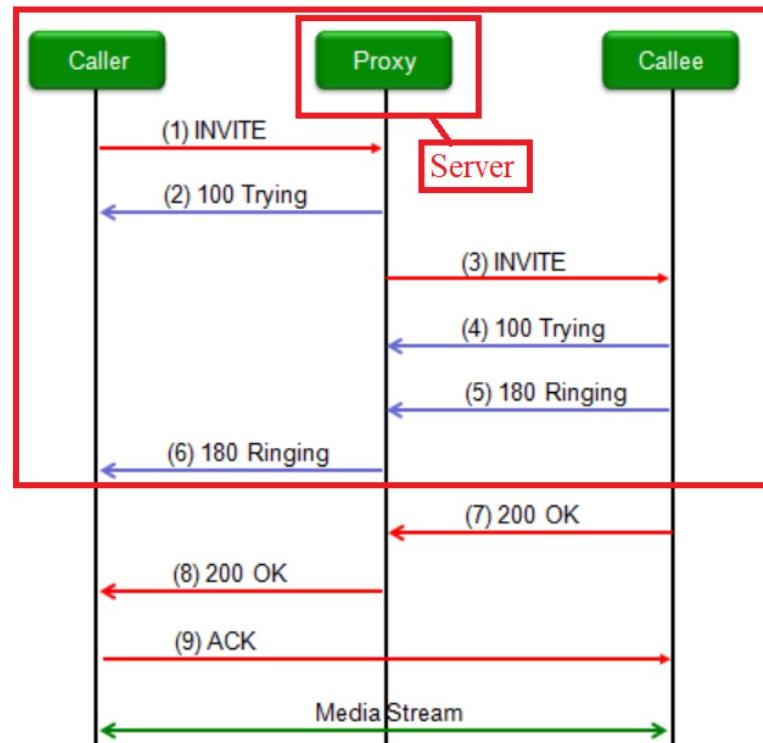
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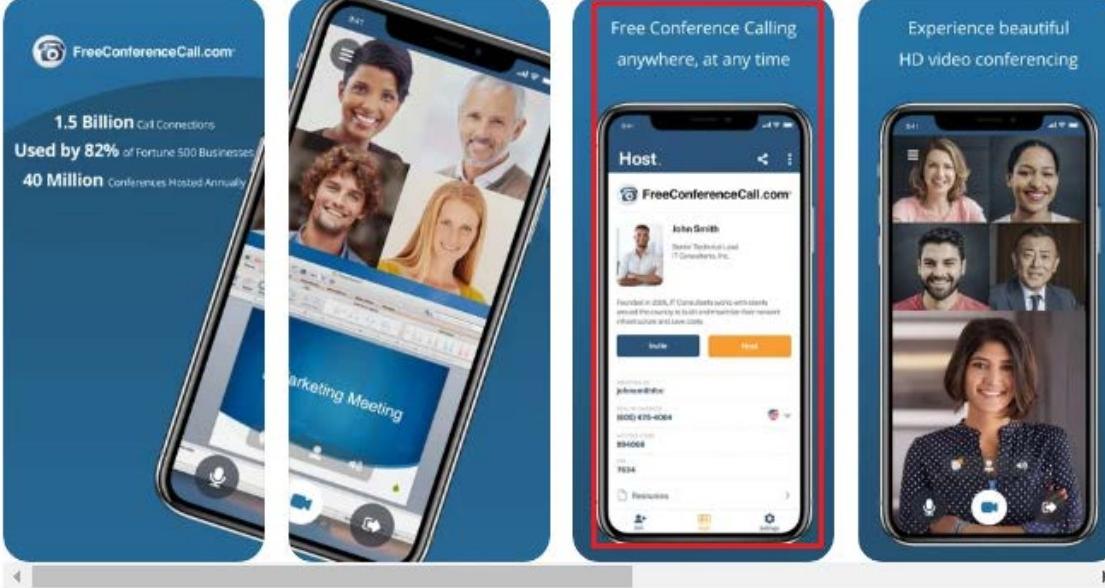
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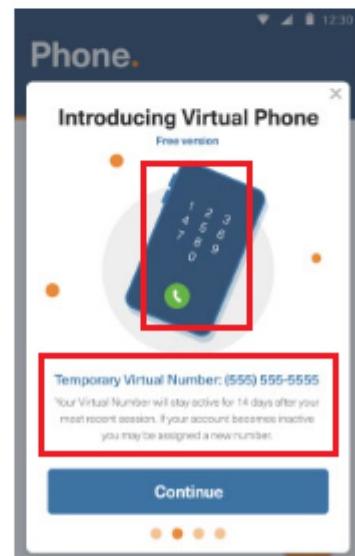
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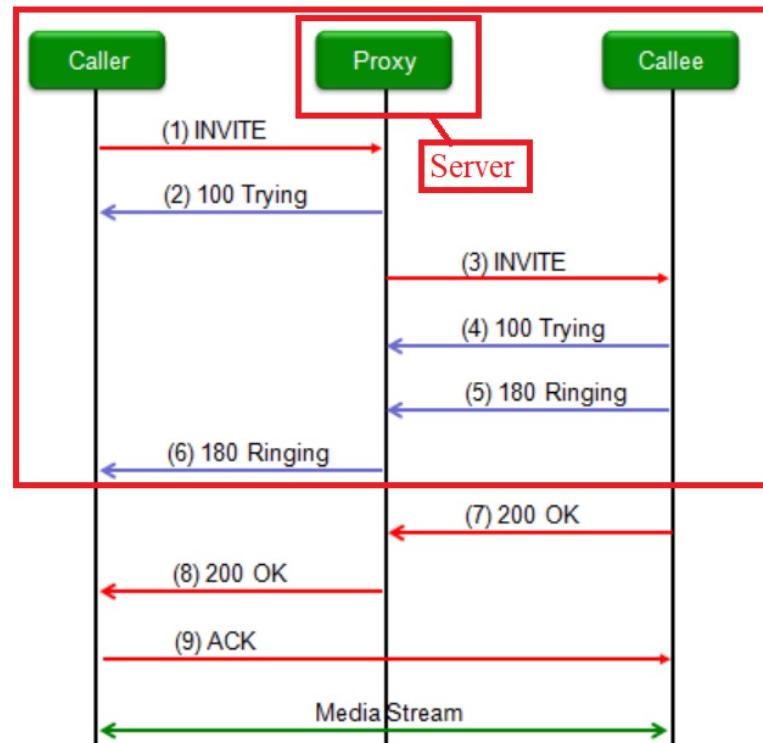
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(c) in response to the call request, a software application running on the server deciding on the appropriate routing to a third party end-user over all available networks for that call request without using the network operator's home or visitor location register.	In response to the call request (e.g., Invite signal from caller to server), a software application (e.g., software running at FreeConferenceCall SIP proxy Server to route/manage calls) running on the server (e.g., FreeConferenceCall Server) deciding on the appropriate routing (e.g., Invite signal from server to callee) to a 3rd party end-user (e.g., Other users using FreeConferenceCall) for that call request (e.g., Invite signal from caller to server) without using the network operator's home or visitor location register.
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App Store Preview

This app is available only on the App Store for iPhone and iPad.

The image shows the App Store preview for the "Free Conference Call" app. It features a large icon of a telephone receiver inside a circle, with the text "Free Conference Call" and "Conferencing & Screen Sharing" by "CarrierX LLC". A red box highlights the app name and developer information. Below the icon, it says "4.5 3.9K Ratings" and "Free". Underneath, there's a section for "Screenshots" with tabs for "iPhone" and "iPad" (the "iPad" tab is highlighted with a red box). Four screenshots are displayed: 1. A promotional card for FreeConferenceCall.com with statistics: "1.5 Billion Call Connections", "Used by 82% of Fortune 500 Businesses", and "40 Million Conferences Hosted Annually". 2. A group video call interface with four participants and the text "Marketing Meeting". 3. A host's interface showing a participant named "John Smith" and a red box highlighting the text "Free Conference Calling anywhere, at any time". 4. A participant's interface showing a video feed of a woman and the text "Experience beautiful HD video conferencing".

<https://apps.apple.com/us/app/free-conference-call/id1076834814#?platform=iphone>

The FreeConferenceCall.com app makes it simple to host HD audio conference calls with video conferencing and screen sharing.

This award-winning audio + video conferencing tool lets you host an unlimited number of meetings with up to 1,000 participants per meeting. You also get screen sharing, international dial-in numbers for 75+ countries, and meeting recording, all for free. All we ask is that if you like the tool you pay us what you think is fair. These contributions help us provide totally free, world-class audio and video conferencing solutions to charities, volunteers, and students all around the world.

Features include:

- Free application download
- Free account activation
- Free HD audio conference calls w/up to 1,000 participants
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- Free International conferencing with dedicated dial-in numbers in 75 countries...and growing!
- Conference features: web controls, including mute and record, lock, view participants, Q&A and more
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★★★★★ 1.5K reviews as of 3/24/2020

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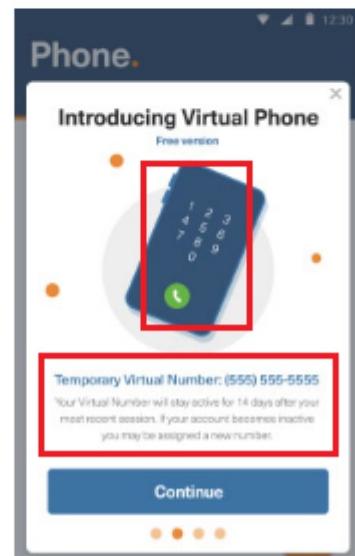
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## Activating your Virtual Phone

1. Download the FreeConferenceCall Mobile app from the [Google Play Store](#) or [Apple App Store](#) and [download the Desktop app](#)
2. Make sure to enable permissions to contacts and notifications so you can take full advantage of the virtual phone's features
3. Launch the app and log into your account
4. Select the phone icon in the bottom navigation bar
5. When selected for the first time, you will go through the activation slides

a. Copy your phone number to your clipboard



b. Enable ringing if you want your device to ring when someone calls your number



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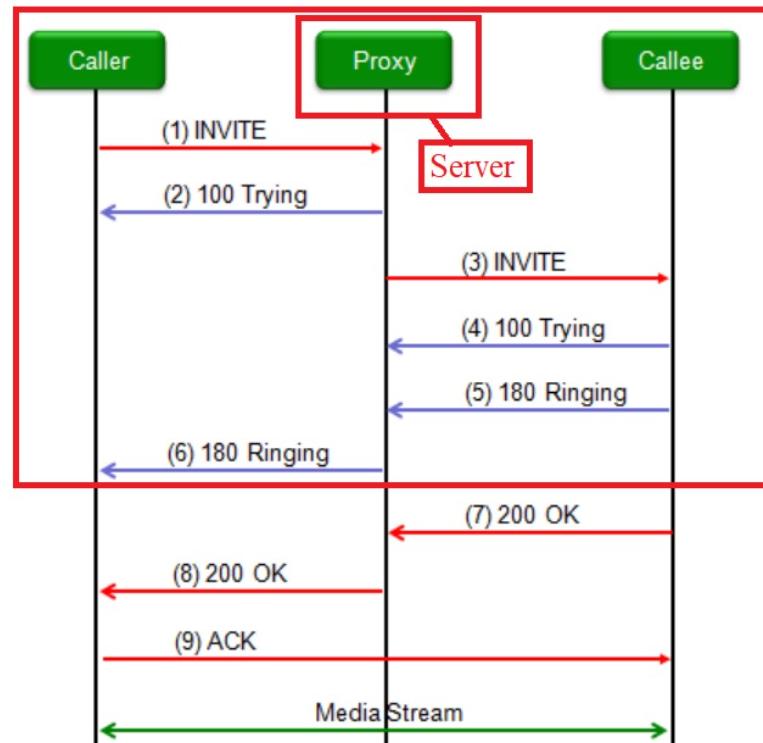
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5. The method of claim 4 in which the user has to enter any data required by the server manually into the device.	<p>The user (e.g., user of FreeConferenceCall application) has to enter any data (e.g., Number/login details etc.) required by the server (e.g., FreeConferenceCall Server) manually into the device (e.g., Smartphone).</p> <p style="text-align: center;"><b>Hop on the Call with Phone or VoIP Conference</b></p> <p>It's always free to dial in to a FreeConferenceCall.com meeting. But if you don't have access to a phone or just want to use your laptop or mobile device to hop on a conference, have a VoIP conference call.</p>  <p><b>Dial in on the Phone</b> To Join the conference using your phone, tap or dial the number and access code, then enter the host PIN</p> <p><b>Free VoIP Conference Call</b> If you want to join the call using VoIP, download our <a href="#">mobile app</a>, log in and tap <a href="#">Internet</a>.</p> <p><b>Take Your Meetings Online</b> Host online meetings to share your screen and show your video. Launch the <a href="#">desktop app</a>, and click <b>Phone</b> then choose to connect by <b>Telephone</b> or <b>Mic &amp; Speakers</b> to use VoIP conference calling.</p> <p><a href="https://www.freeconferencecall.com/voip-conference-calls?country_code=us&amp;locale=global">https://www.freeconferencecall.com/voip-conference-calls?country_code=us&amp;locale=global</a></p>
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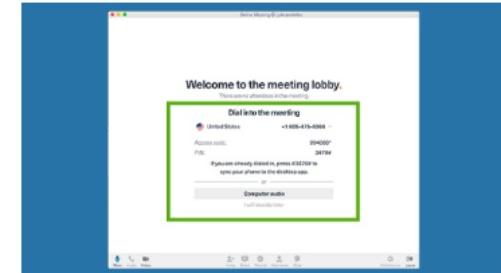
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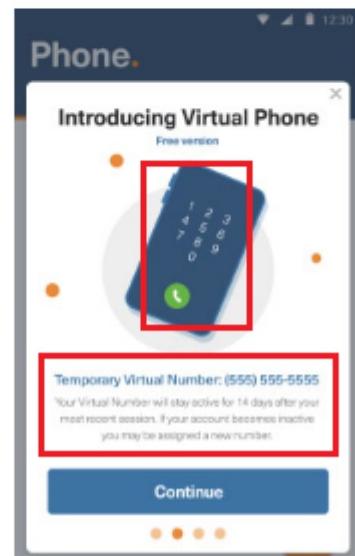
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[https://www.freeconferencecall.com/voip-conference-calls?country\\_code=us&locale=global](https://www.freeconferencecall.com/voip-conference-calls?country_code=us&locale=global)

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b. Enable ringing if you want your device to ring when someone calls your number



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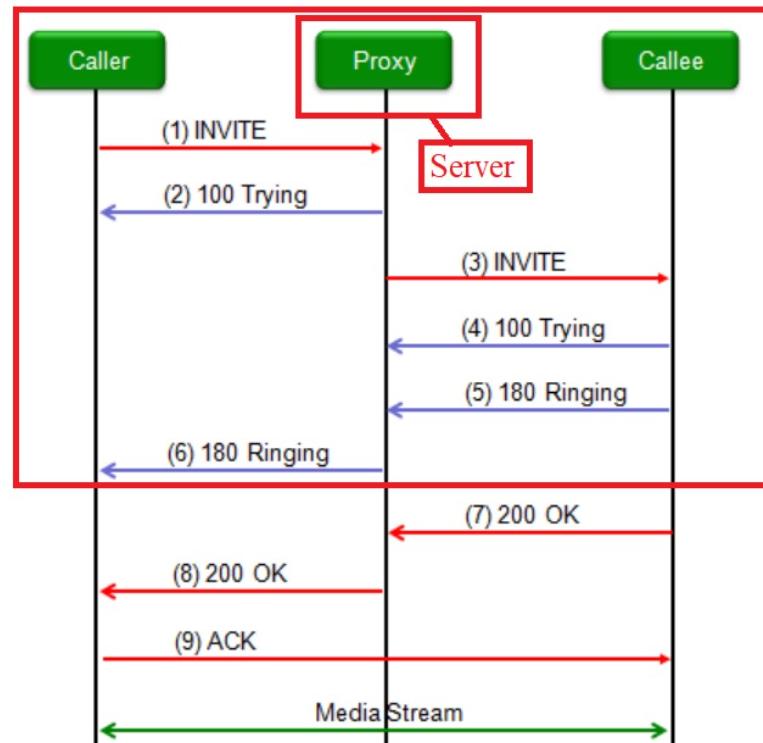
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(a) the wireless device is operable using a module that is responsible for contacting the server to communicate with the server over a wireless link, wherein the device includes the module that is implemented as software and that is downloadable to the device;	The wireless device (e.g., Smartphone) is operable using a module (e.g., FreeConferenceCall application) that is responsible for contacting a server (e.g., FreeConferenceCall Server) to communicate with the server (e.g., FreeConferenceCall Server) over a wireless link (e.g., VoIP link), wherein the wireless device (e.g., Smartphone) includes the module (e.g., FreeConferenceCall application) that is implemented as software and that is downloadable to the wireless device (e.g., Smartphone).
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App Store Preview

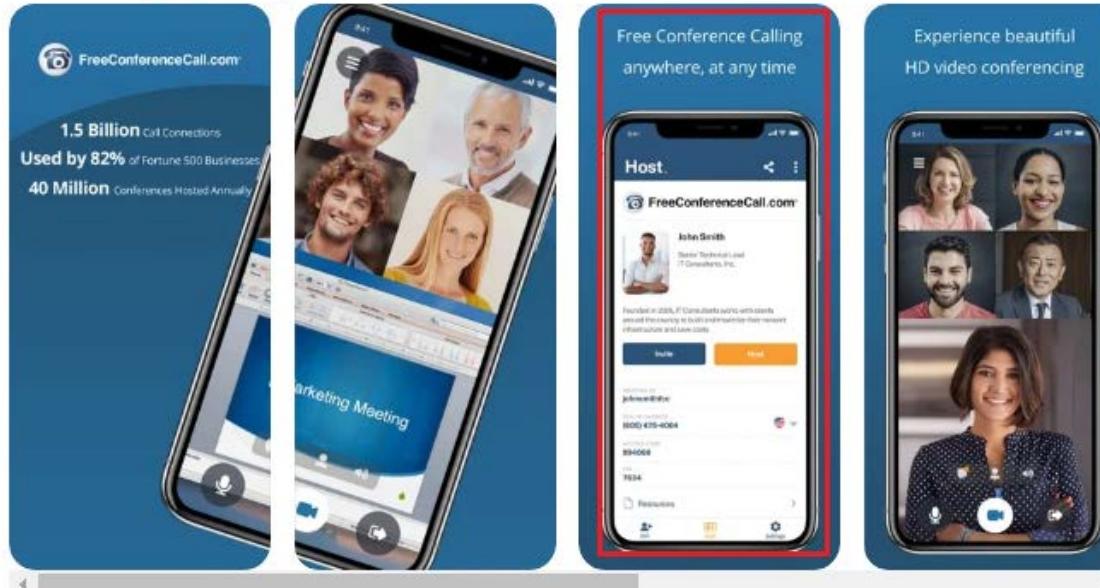
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**Free Conference Call** 4.5  
Conferencing & Screen Sharing  
CarrierX LLC

★★★★★ 4.5 • 3.9K Ratings  
Free

Screenshots iPhone iPad



**Free Conference Calling anywhere, at any time**

Experience beautiful HD video conferencing

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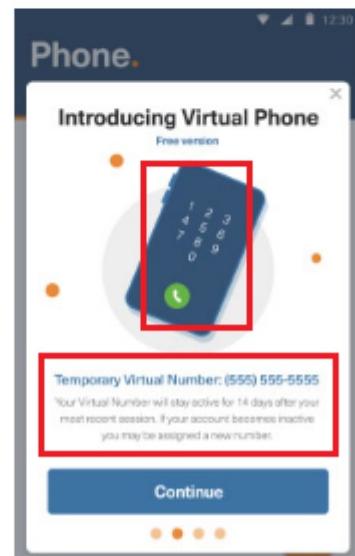
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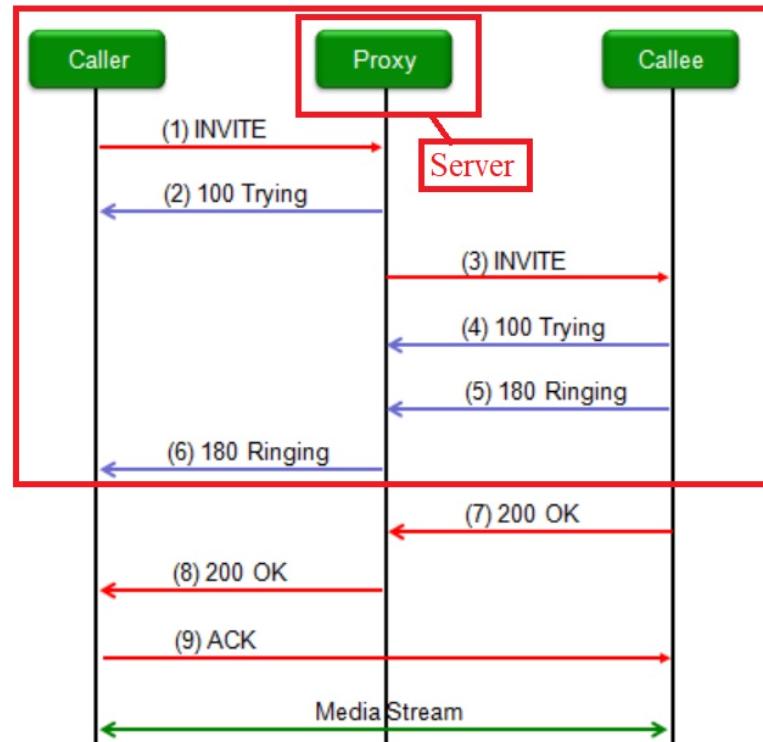
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App Store Preview

This app is available only on the App Store for iPhone and iPad.

The image shows the App Store preview for the "Free Conference Call" app. It features a large icon of a telephone receiver inside a circle, with the text "Free Conference Call" and "Conferencing & Screen Sharing" by "CarrierX LLC". A red box highlights the app's name and developer. Below the icon, it says "4.5 3.9K Ratings" and "Free". Underneath, there's a section for "Screenshots" with tabs for "iPhone" and "iPad" (the "iPad" tab is highlighted with a red box). Four screenshots are displayed: 1. A promotional card for FreeConferenceCall.com with statistics: "1.5 Billion Call Connections", "Used by 82% of Fortune 500 Businesses", and "40 Million Conferences Hosted Annually". 2. A group video call interface with four participants and the text "Marketing Meeting". 3. A host's interface showing a participant named "John Smith" and a red box highlighting the text "Free Conference Calling anywhere, at any time". 4. A participant's interface showing a video feed of a woman and the text "Experience beautiful HD video conferencing".

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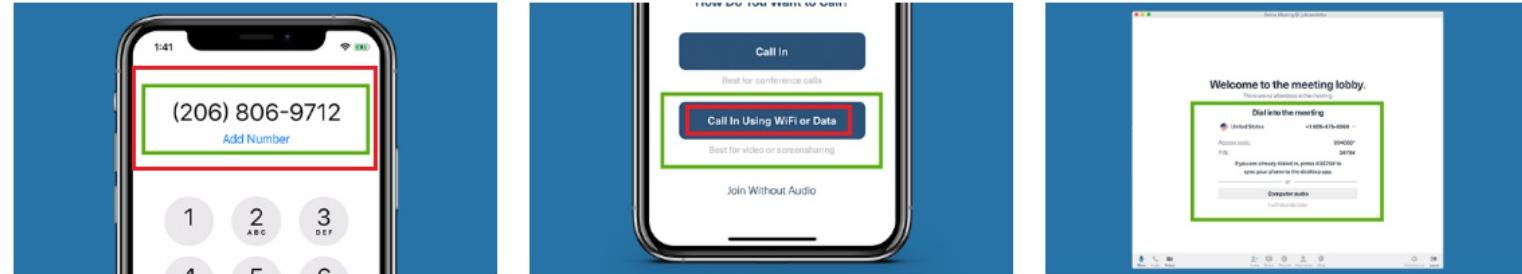
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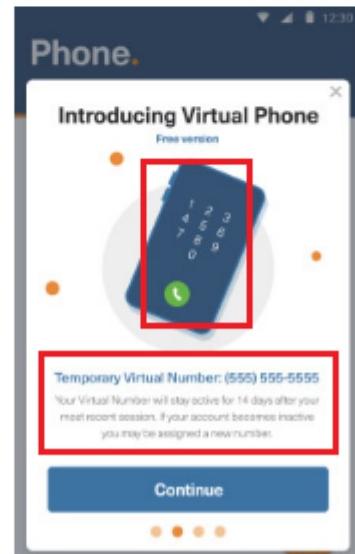
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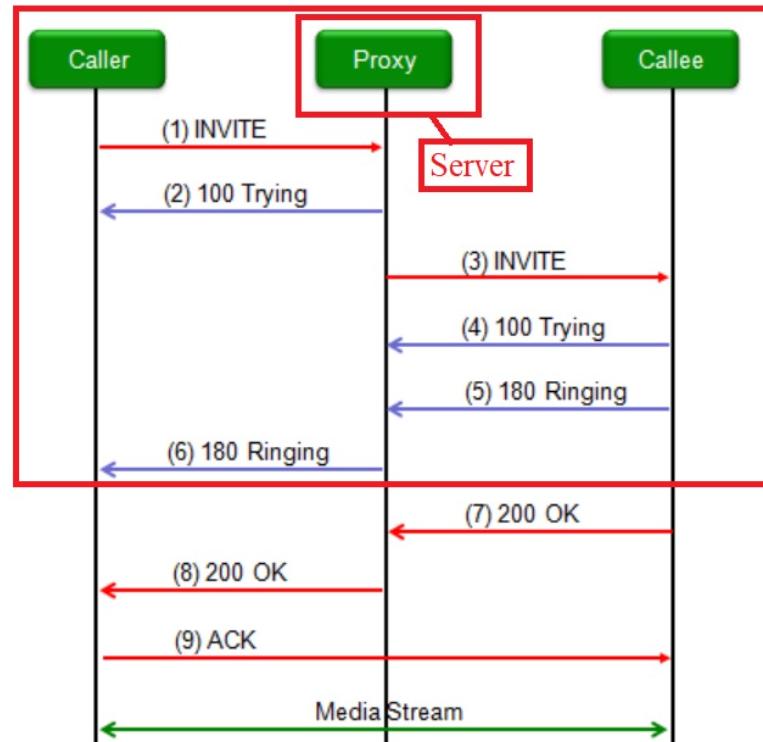
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<p>(c) in response to the call request, the calls manager software included on the server is operable to decide on the appropriate routing to a third party end-user over all available networks for that call request without using the network operator's home or visitor location register.</p>	<p>in response to the call request (e.g., Invite signal from caller to server), the call manager software (e.g., software running at FreeConferenceCall SIP proxy Server to route/manage calls) included on the server (e.g., FreeConferenceCall Server) is operable to decide on the appropriate routing (e.g., Invite signal from server to callee) to a 3rd party end-user (e.g., Other users using FreeConferenceCall) for that call request (e.g., Invite signal from caller to server) without using the network operator's home or visitor location register.</p>
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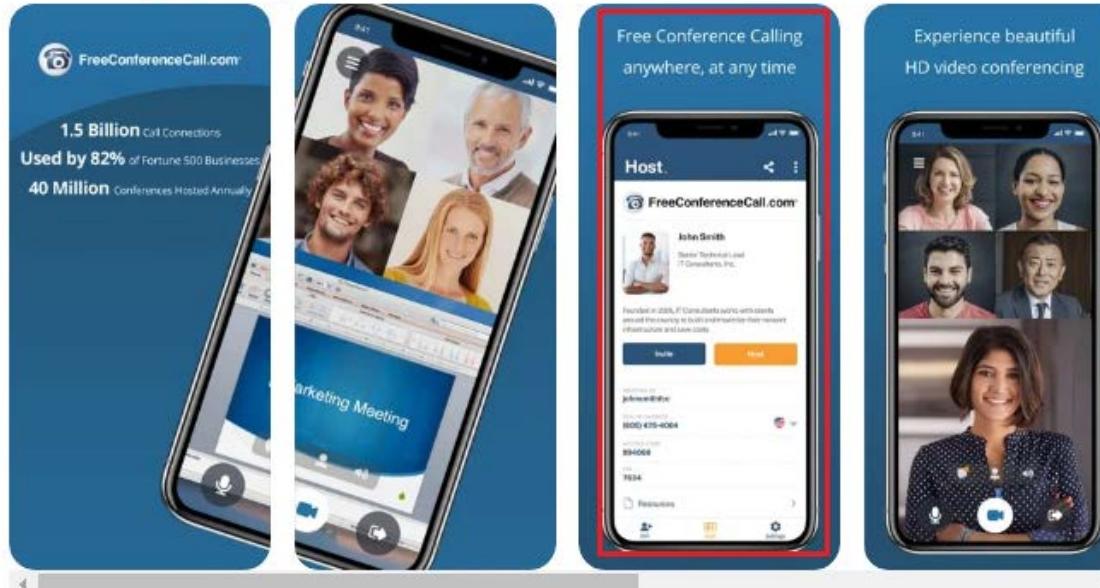
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[https://www.freeconferencecall.com/voip-conference-calls?country\\_code=us&locale=global](https://www.freeconferencecall.com/voip-conference-calls?country_code=us&locale=global)

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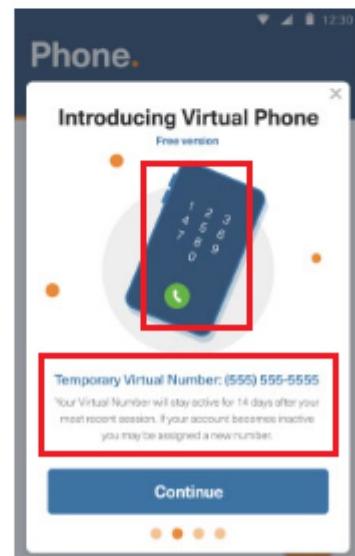
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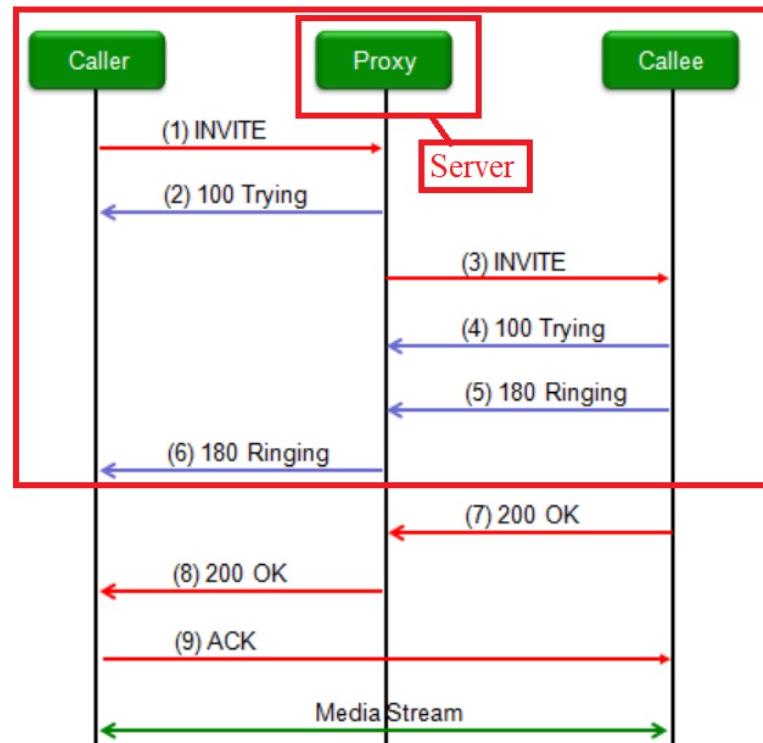
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24. A server for enabling a wireless device to communicate with the server to initiate a network connection without using a network operator's home location register, wherein the server includes a software application that functions as a calls manager, wherein:	The accused product discloses a server enabling a wireless device (e.g., Smartphone) located in a region and a server for enabling the wireless device (e.g., Smartphone) to communicate with the server (e.g., FreeConferenceCall Server) to initiate a network connection without using a network operator's home location register that covers that region, wherein the server includes a software application (e.g., software running at FreeConferenceCall SIP proxy Server to route/manage calls) that functions as a calls manager
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App Store Preview

This app is available only on the App Store for iPhone and iPad.

The image shows the App Store preview for the "Free Conference Call" app. It features a large icon of a telephone receiver inside a circle, with the text "Free Conference Call" and "Conferencing & Screen Sharing" by "CarrierX LLC". A red box highlights the app name and developer information. Below the icon, it says "4.5 3.9K Ratings" and "Free". Underneath, there's a section for "Screenshots" with tabs for "iPhone" and "iPad" (the "iPad" tab is highlighted with a red box). Four screenshots are displayed: 1. A promotional card for FreeConferenceCall.com with statistics: "1.5 Billion Call Connections", "Used by 82% of Fortune 500 Businesses", and "40 Million Conferences Hosted Annually". 2. A group video call interface with four participants and the text "Marketing Meeting". 3. A host's interface showing a participant named "John Smith" and a red box highlighting the text "Free Conference Calling anywhere, at any time". 4. A participant's interface showing a video feed of a woman and the text "Experience beautiful HD video conferencing".

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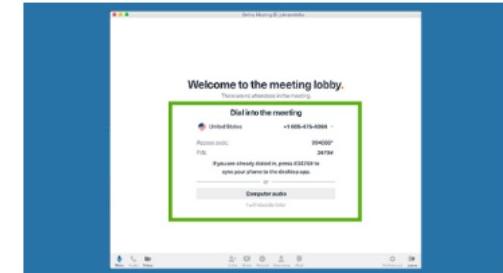
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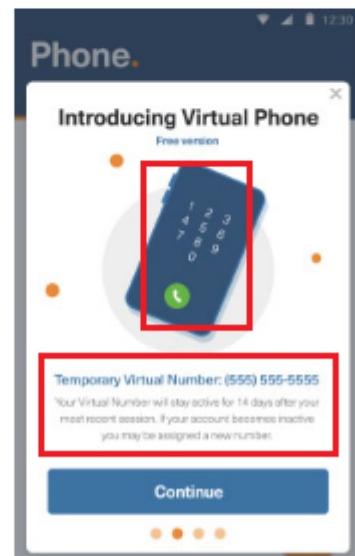
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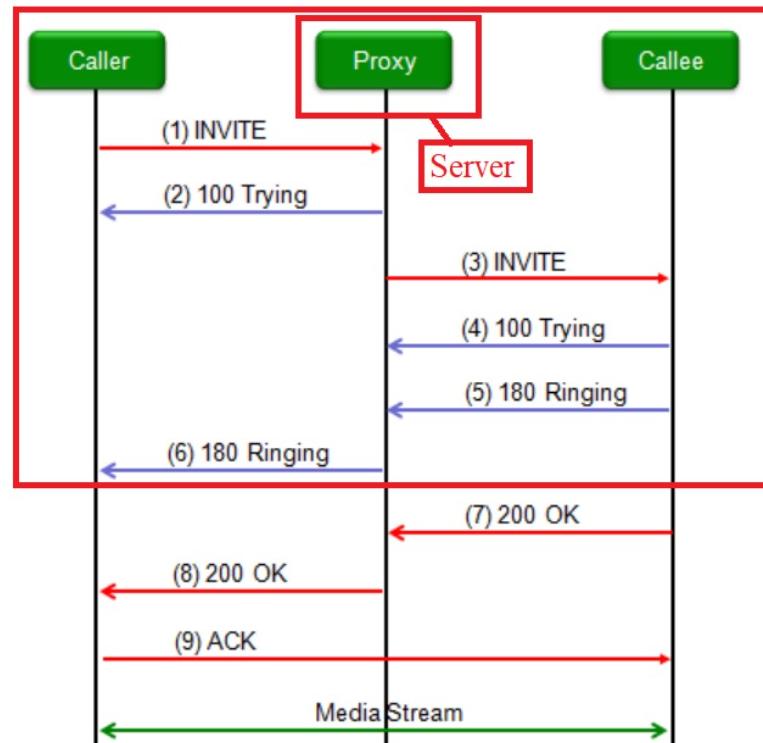
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(a) the wireless device is operable using a module that is responsible for contacting the server to communicate with the server over a wireless link, wherein the device includes the module that is implemented as software and that is downloadable to the device;	The wireless device (e.g., Smartphone) is operable using a module (e.g., FreeConferenceCall application) that is responsible for contacting a server (e.g., FreeConferenceCall Server) to communicate with the server (e.g., FreeConferenceCall Server) over a wireless link (e.g., VoIP link), wherein the wireless device (e.g., Smartphone) includes the module (e.g., FreeConferenceCall application) that is implemented as software and that is downloadable to the wireless device (e.g., Smartphone).
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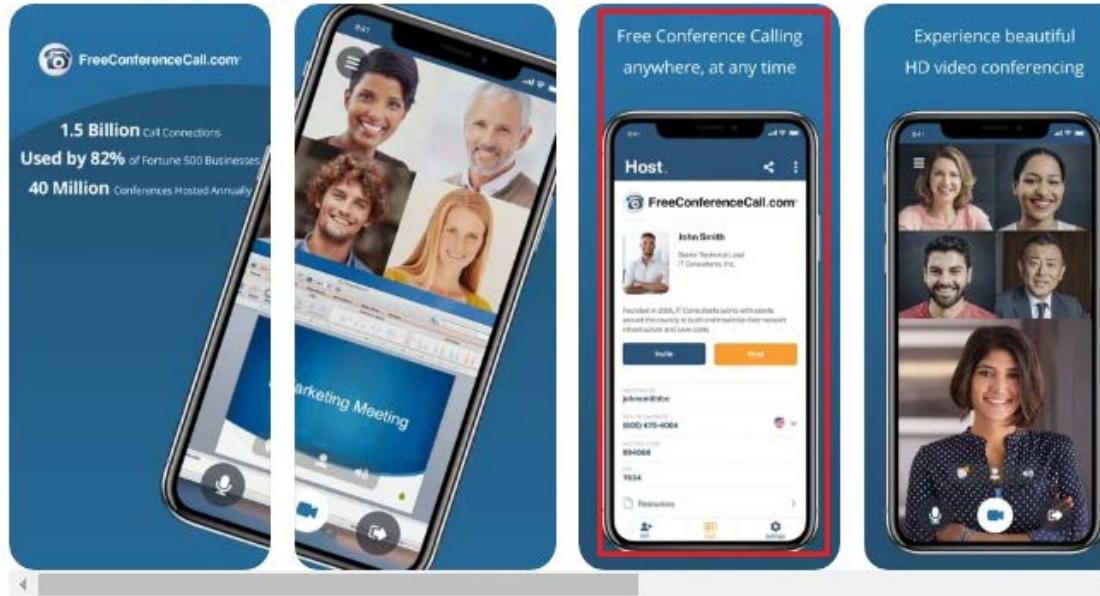
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**Free Conference Call** 4.5  
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Free

Screenshots iPhone iPad



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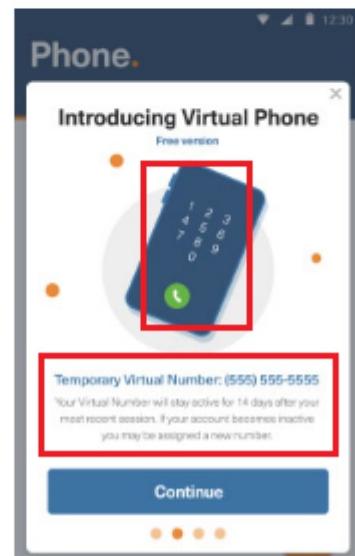
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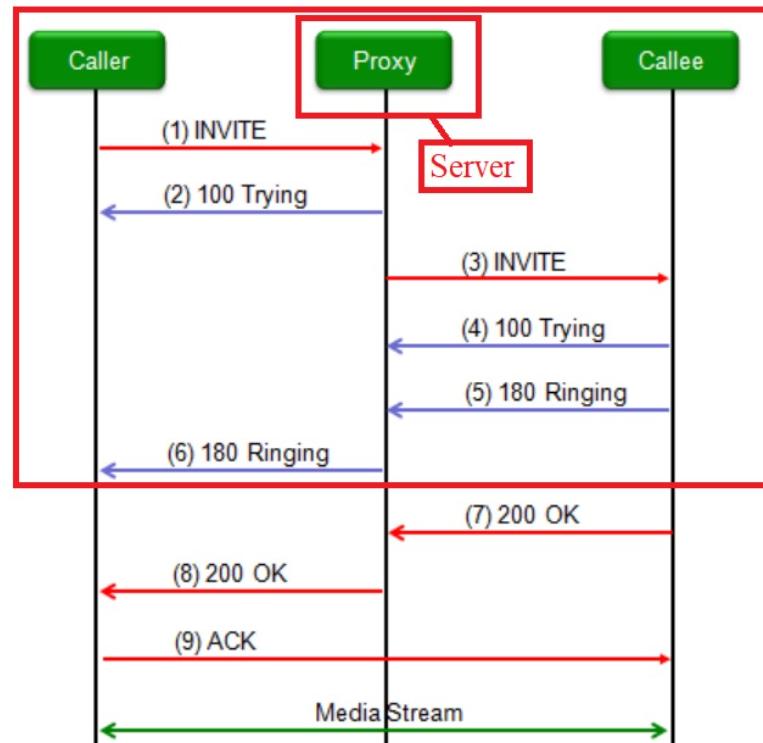
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Why dial in to a conference call when you don't have to? FreeConferenceCall.com apps for iOS and Android take all the heavy lifting out of conferencing. Award-winning collaboration is just a tap away.



### FreeConferenceCall.com App for iOS

★★★★★ 1.5K reviews as of 3/24/2020

Easily host and manage phone or VoIP conference calls from the convenience of your iPhone, iPad or iPad Pro®. Record a quick video conference or join in on a screen sharing session. Send meeting invitations with email or iMessage® app. Compatible with: iOS 9.0 and up (sharing phone's screen requires v11.0).



[https://www.freeconferencecall.com/apps?country\\_code=us&locale=global](https://www.freeconferencecall.com/apps?country_code=us&locale=global)



### FreeConferenceCall.com App for Android

★★★★★ 5.9K reviews as of 3/24/2020

Get mobile with your online meetings using the FreeConferenceCall.com Android app. Screen share a presentation, host an international conference call or video conference. All our easy-to-use features are at your fingertips. Compatible with all devices.



## Hop on the Call with Phone or VoIP Conference

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### Dial in on the Phone

To join the conference using your phone, tap or dial the number and access code, then enter the host PIN

### Free VoIP Conference Call

If you want to join the call using VoIP, download our [mobile app](#), log in and tap [Internet](#).

### Take Your Meetings Online

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#### What is a VoIP conference call?

Voice over internet protocol (VoIP) conference calls connect two or more parties over an internet connection instead of using traditional carrier networks.

Normally, when you make calls with a telephone, you connect with your party through a public switched telephone network (PSTN). Instead, using VoIP allows you to connect to your party over the internet, converting your audio information into a digital format that travels through the worldwide network.

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What is a VoIP conference call?

How do you conference call on VoIP?

To make a VoIP call to a FreeConferenceCall.com listed phone number, you'll need access to the internet and an internet softphone or the FreeConferenceCall.com desktop or mobile app.

VoIP calls work similarly to calls using a carrier network. Using your softphone, dial the number of the conference you wish to join and enter the access number followed by the pound key. You are now on a VoIP conference call with your party.

If you'd like to join a VoIP conference using FreeConferenceCall.com, you can quickly join the call by entering the meeting ID and selecting "Join." Next, select "computer audio." You are now on a VoIP conference call with your party.

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What is a VoIP conference call?

How do you conference call on VoIP?

What is a softphone?

A softphone, also referred to as an internet telephone, is a software on a computer or mobile device that allows users to make VoIP calls. Softphones can be accessed through your VoIP provider, capable of dialing standard phone numbers like a traditional phone.

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What is a softphone?

What do I need to make a VoIP call?

When you want to connect with your party using VoIP, you'll need a computer, a VoIP provider and access to the internet. You'll also need a headset or device with audio output/input capabilities to speak to your party and hear them.

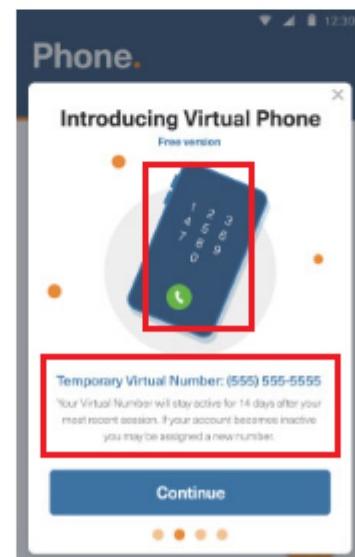
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## Activating your Virtual Phone

1. Download the FreeConferenceCall Mobile app from the [Google Play Store](#) or [Apple App Store](#) and [download the Desktop app](#)
2. Make sure to enable permissions to contacts and notifications so you can take full advantage of the virtual phone's features
3. Launch the app and log into your account
4. Select the phone icon in the bottom navigation bar
5. When selected for the first time, you will go through the activation slides

a. Copy your phone number to your clipboard



b. Enable ringing if you want your device to ring when someone calls your number



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## How SIP is used in VoIP

SIP is a text based protocol that was developed on a similar model to HTTP responses. When compared to alternatives such as H.323, it is very simple to construct and debug. But it is also extremely flexible and has powerful features that can be utilized in very complex PBX systems. It is a general-purpose protocol that can handle a variety of sessions. In VoIP specifically, SIP is used to perform a variety of functions including:

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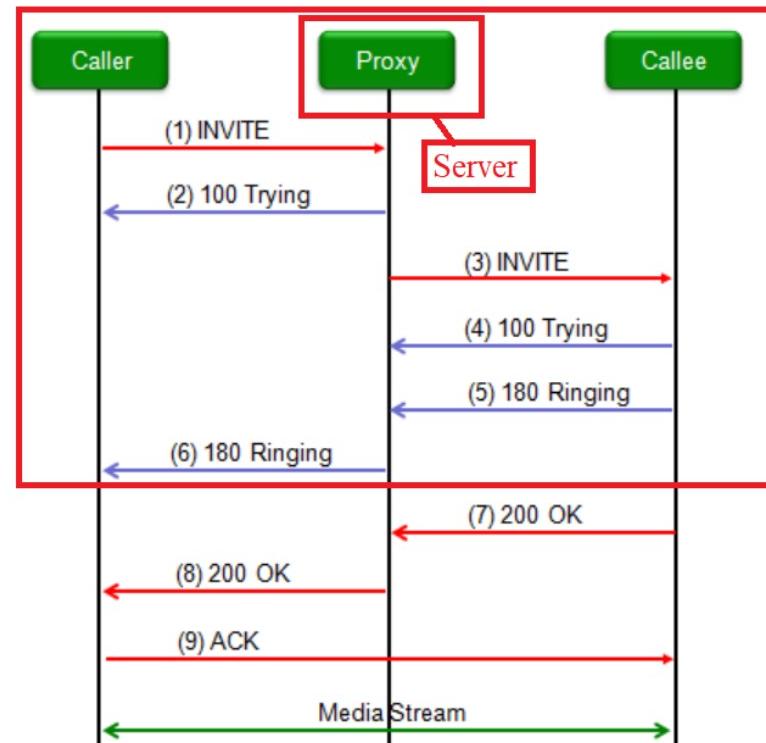
## Session set up

SIP tells the phone that is being called to start ‘ringing’ and manages the initial contact between all parties.

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INVITE is a session initiation (session creation) process in SIP based communication. There are some SIP communication that does not require a session establishment (e.g, SMS over IMS or some other form of Short Message), but most of the IMS/SIP based communication (e.g, VoLTE, Video, File Transfer etc) are going on in a session. Whenever the session needs to be established, it is done by INVITE process. The critical part of this process is 'INVITE' at the beginning and 200 OK at the end. But in reality, many other steps are going on between the INVITE and 200OK and the detailed sequences of messages between INVITE and 200 OK differs depending on what kind of session is to be established. (If you are not familiar with what Session means, refer to [Session](#) page)

The example in this page is the simplest form of INVITE being used in VoLTE. The example in this page focus only the INVITE and its corresponding 200 OK. If you want to know the details of other messages and contents of those messages, refer to [MO VoLTE with PreCondition](#).



[https://www.sharetechnote.com/html/IMS\\_SIP\\_Procedure\\_Invite\\_VoLTE.html](https://www.sharetechnote.com/html/IMS_SIP_Procedure_Invite_VoLTE.html)

(c) in response to the call request, the calls manager software included on the server is operable to decide on the appropriate routing to a third party end-user over all available networks for that call request without using that network operator's home or visitor location register.	In response to the call request (e.g., Invite signal from caller to server), the call manager software (e.g., software running at FreeConferenceCall SIP proxy Server to route/manage calls) included on the server (e.g., FreeConferenceCall Server) is operable to decide on the appropriate routing (e.g., Invite signal from server to callee) to a 3rd party end-user (e.g., Other users using FreeConferenceCall) for that call request (e.g., Invite signal from caller to server) without using the network operator's home or visitor location register.
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App Store Preview

This app is available only on the App Store for iPhone and iPad.

The image shows the App Store preview for the "Free Conference Call" app. It features a large icon with a white telephone receiver inside a blue circle. To the right of the icon, the app's name "Free Conference Call" is displayed in bold, along with a "4.6" rating and the developer "CarrierX LLC". Below the icon, it says "Conferencing & Screen Sharing" and "Free". Underneath the main title, there is a section titled "Screenshots" with tabs for "iPhone" and "iPad", where "iPhone" is highlighted with a red box. Below the tabs are four screenshots of the app's interface: 1. A promotional card for FreeConferenceCall.com stating "1.5 Billion Call Connections", "Used by 82% of Fortune 500 Businesses", and "40 Million Conferences Hosted Annually". 2. A video conference call with four participants. 3. The host's interface showing participant profiles and a "Host" button. 4. A participant's view of the video conference. The third screenshot is also highlighted with a red box.

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The FreeConferenceCall.com app makes it simple to host HD audio conference calls with video conferencing and screen sharing.

This award-winning audio + video conferencing tool lets you host an unlimited number of meetings with up to 1,000 participants per meeting. You also get screen sharing, international dial-in numbers for 75+ countries, and meeting recording, all for free. All we ask is that if you like the tool you pay us what you think is fair. These contributions help us provide totally free, world-class audio and video conferencing solutions to charities, volunteers, and students all around the world.

Features include:

- Free application download
- Free account activation
- Free HD audio conference calls w/up to 1,000 participants
- Free HD video conferencing and screen sharing w/up to 1,000 participants
- Free International conferencing with dedicated dial-in numbers in 75 countries...and growing!
- Conference features: web controls, including mute and record, lock, view participants, Q&A and more
- One-touch conference commands to manage calls
- Dial-in by VoIP
- Unlimited account and conference access

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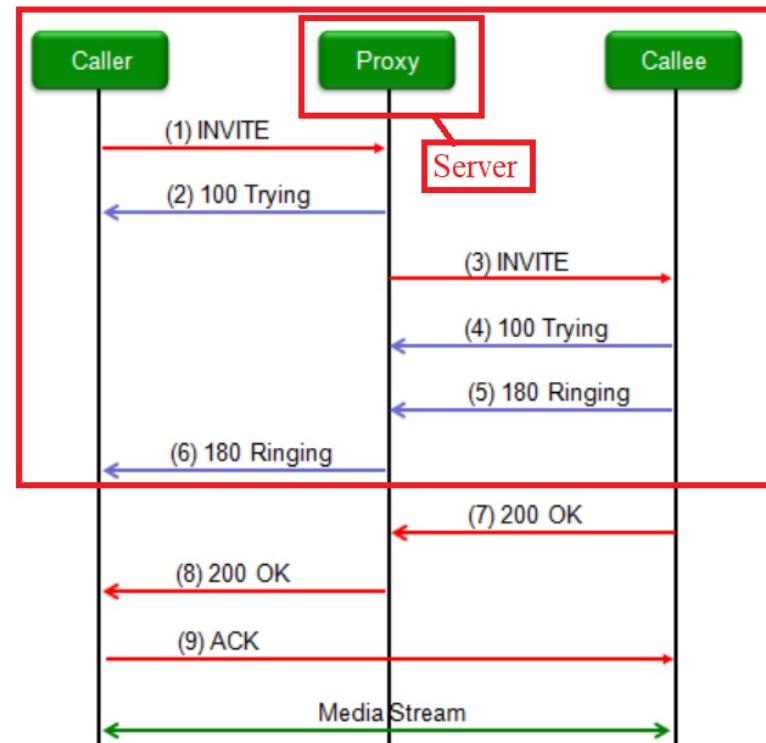
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